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# ① Senna leaves

- Botanical origin

① Is the dried leaves of Cassia acutifolia.

② Synonymi:- Cassia senna (Alexandrian Senna) or Cassia angustifolia (Indian Senna)

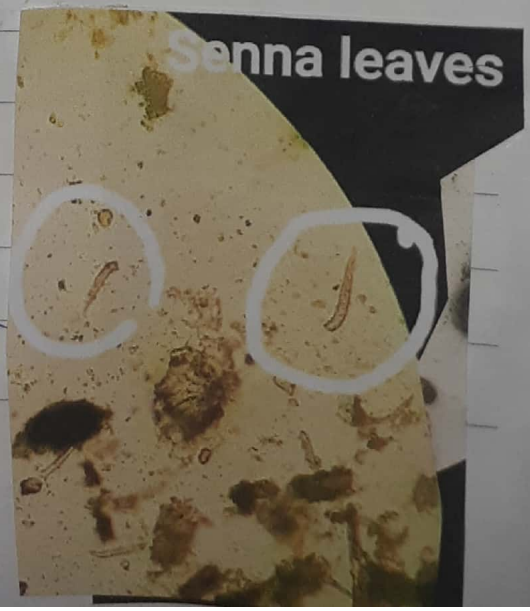
③ Family:- Legumi

- Macrosocopical characters:

① Both surface bear scattered unicellular non lignified warty hair

- Chemical Constituent:-

① Glycosides: Anthraquinone group: sennoside A & B, and traces of C & D.




Uses:-

① Treatment of constipation

② Is small doses laxative but in large doses purgative

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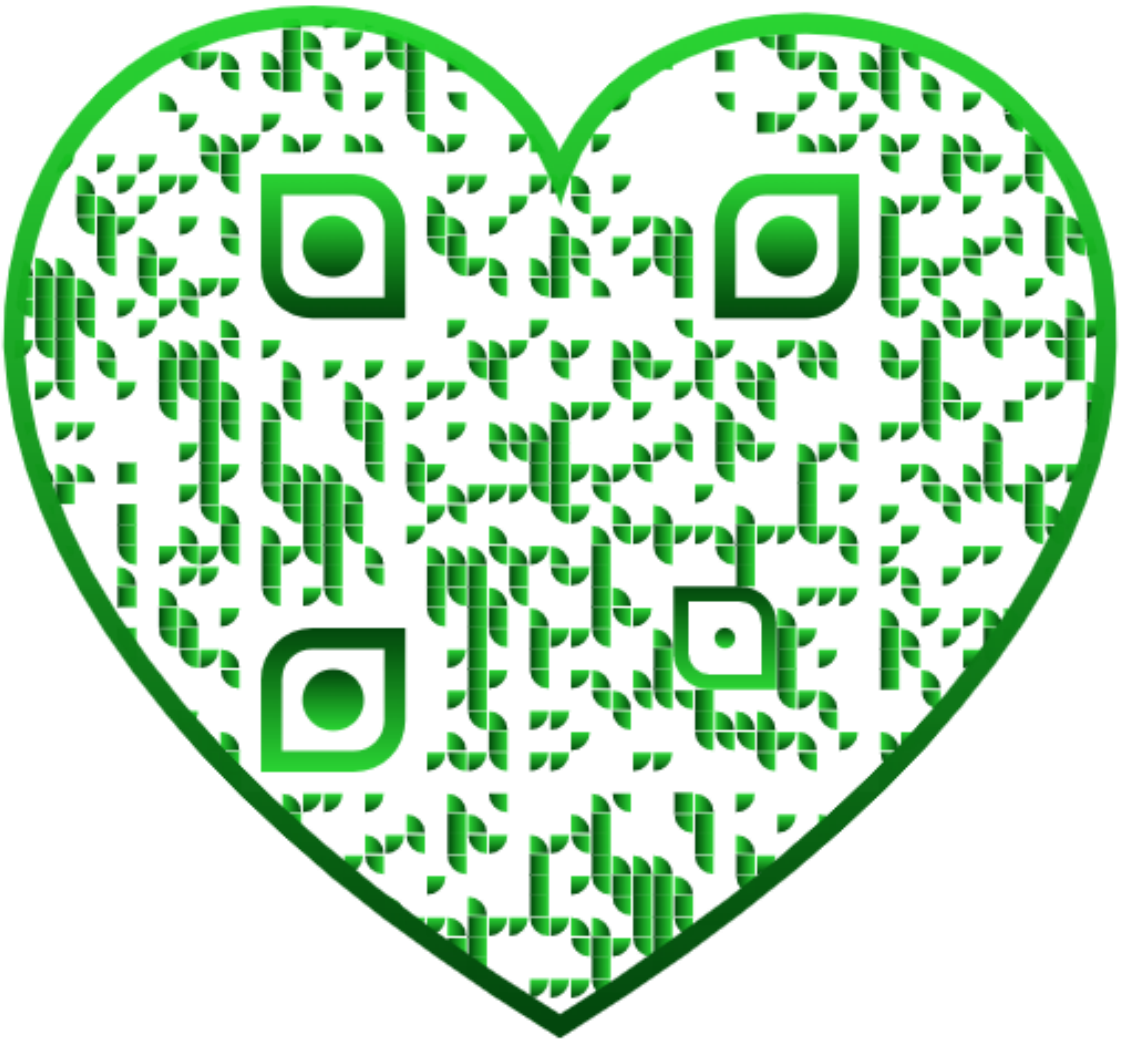

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## ③ Chamomile flowers

-Botanical origin:.

① It is the dried flower heads of Anthemis nobilis (Roman chamomile)

② family:. Compositae

-Characteristic microscopical features:

① The occasional pollen grains key element. Which are spherical with three pores and a spiny and warty exine

-Chemical Constituent:.

① Volatile oil (1%) Chamomile oil:.

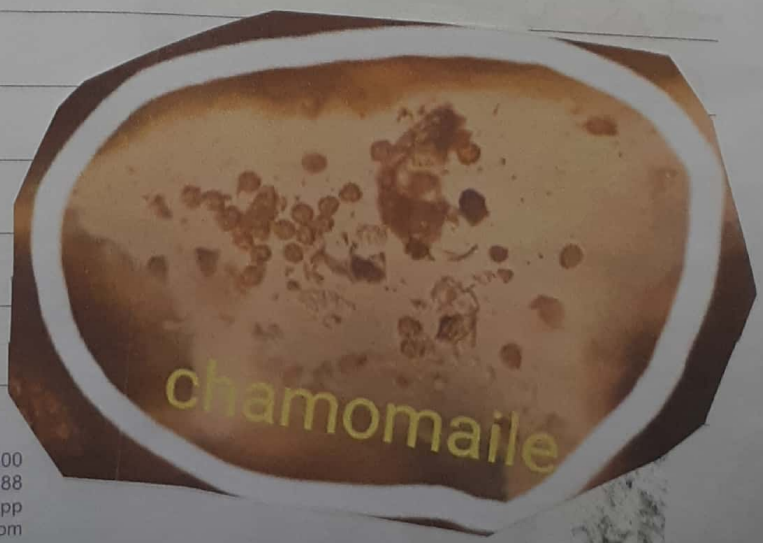
@ Azulene (chamazulene) - Sesquiterpenes.

-Uses:

① Anti inflammatory مضاد للالتهابات

② Carminative

③ Cosmetics تجميل

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# ④ Clove flower buds

-Botanical origin:-

①It is the dried flowering buds of Eugenia caryophyllus.

②family: Myrtaceae.

-Characteristic microscopical features:-

-The abundant pollen grain which are small, biconvex with a round, triangular outline and a smooth exine.

-Chemical Constituent:-

①Volatile oil 14% - 20% (Eugenol 70% - 90%)

-Uses:-

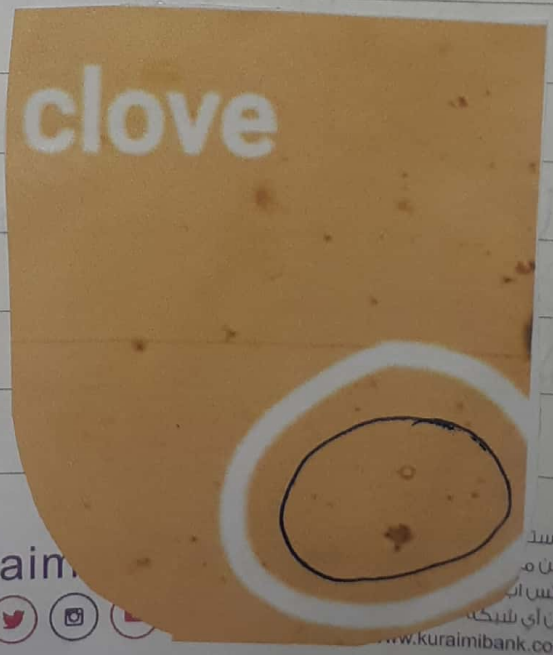
①Condiment

②Carminative

③Antiseptic

④flavoring agent

⑤local anesthetic

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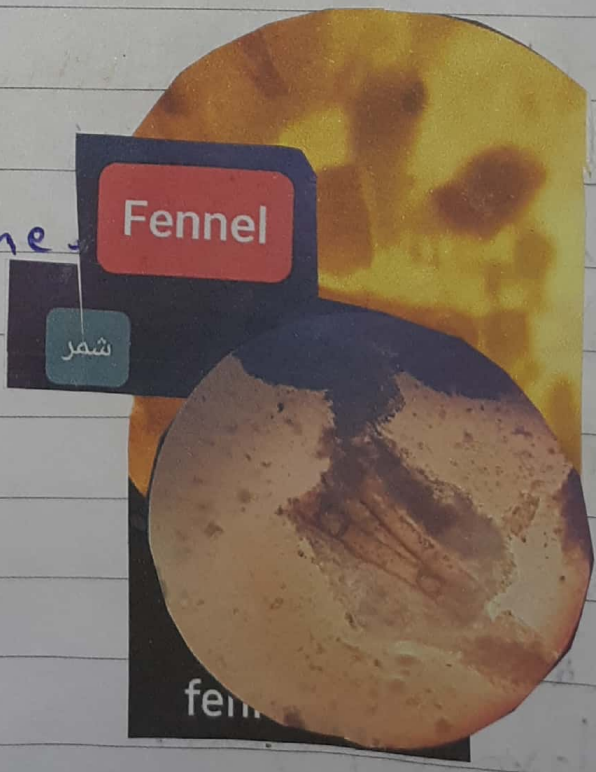
## ⑤ Fennel fruits

- Botanical origin:
  ① It is the dried ripe fruits of foeniculum vulgare.
  ② family: Umbelliferae.

- Characteristic microscopical features:
  ① The numerous brown fragments of the vittae composed of thin-walled cells

- Chemical Constituent:
  ① Volatile oil
  ② fenchone
  ③ Anethole and limonene.




- Uses:-
  ① Carminative
  ② Antispasmodic.
  ③ flavoring agent.

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## ⑥ Coriander fruits

-Botanical origin:

① It is the dried ripe fruits of Coriandrum Sativum.

② Family: Umbelliferae.

-Characteristic microscopical features:

① Sclerenchyma is very thick-walled, fusiform cells with a narrow lumen these cells occur in in several layers with the arrayed at right angles to one another.

-Chemical Constituent:

① Volatile oil 2%

② Coriandrol 65% - 70%

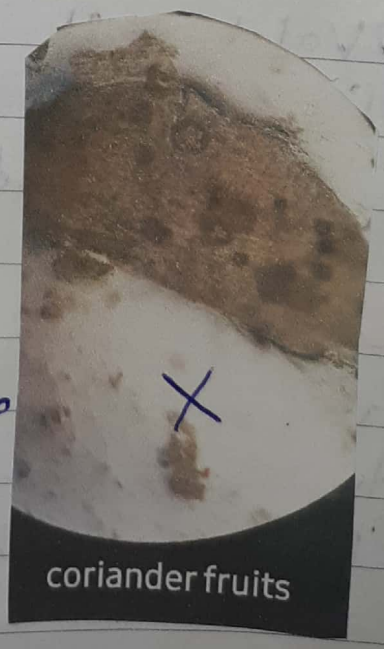
③ Pinene and other traces V.O.

-Uses:

① Condiment.

② Carminative.

③ flavoring agent.

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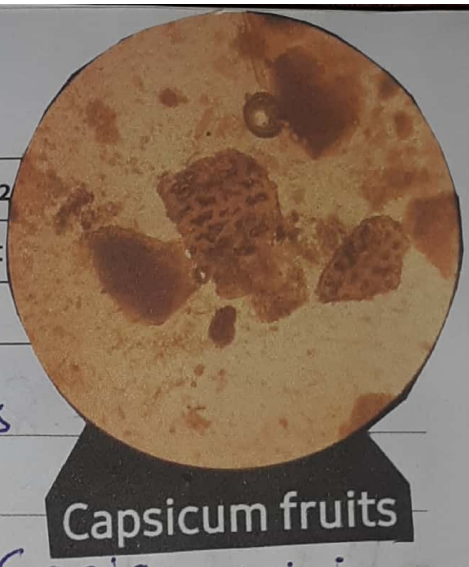



## ⑦ Capsicum fruits

-Botanical origin:-

① It is the dried ripe fruits of Capsicum minimum or Capsicum annum.

② family:- Solanaceae

-Characteristic microscopical features:

① The inner epidermis or endocarp (islet of sclereids).

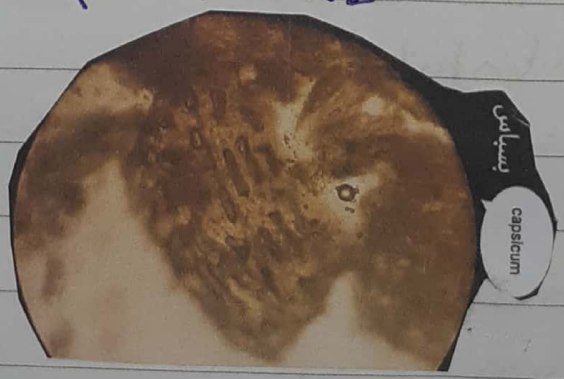
-Chemical Constituent:-

① Phenolic substance, Capsaicin 0.02 %.

② α & β carotene.

③ Vitamin C.

④ fixed oil.




-Uses:

① Internally: Stomachic, Condiment, Carminative.

② Externally: Counter irritant, rubificient.

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# Linseed (flaxseed)

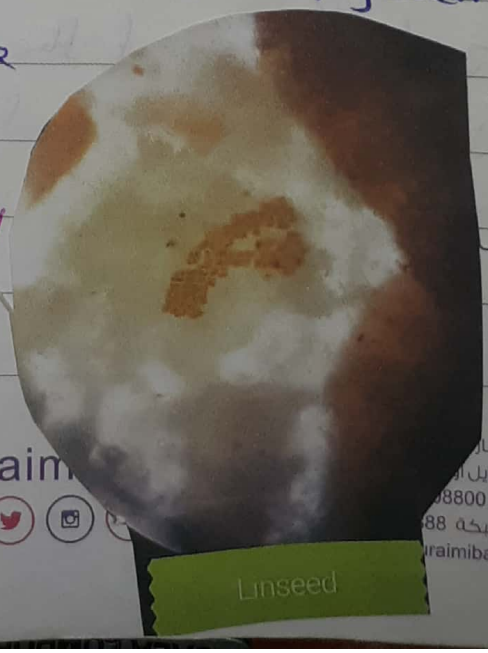
- Botanical origin: dried seed of linum usitatissimum.
- Family: linaceae.

* Chemical Constituents:
  1. Fixed oil 30-40 %.
  2. Cyangenic glycoside (linmarin)

* Uses:
  1. Demulcent 2. mild laxative 3. Emollient 4. Industrial uses (pain, varnishes, drying oil)

* Microscopical examination:

1. The abundant fragments of the pigment layer of the testa, in surface view the cells are square to polygonal with moderately thitened

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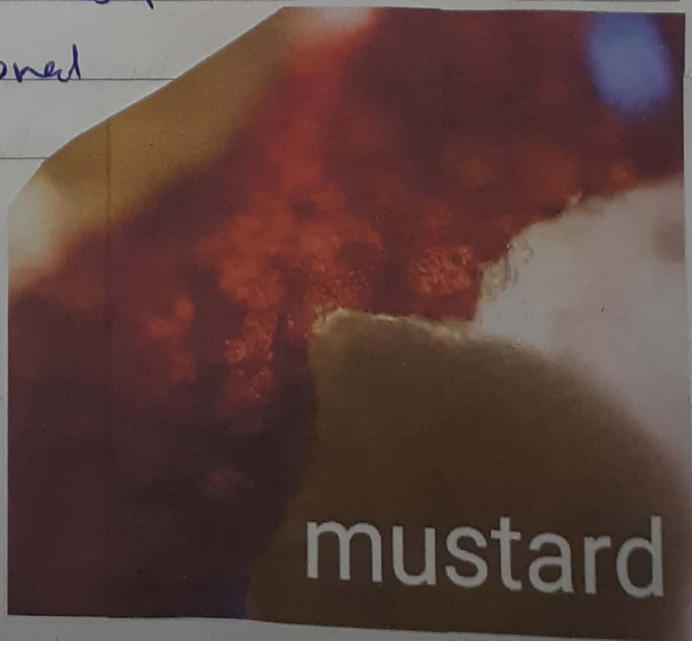
# Black mustard

- Botanical origin:- Dried ripe seeds of Brassica nigra.
- Family :- Cruciferae.

* Active Constituents:-
① A thio-glycosid (singrin)
② fixed oil, protein and mucilage.

* Uses:-
① Condiment توابل ② Externally as a counter-irritant مشتت موضعي

* Microscopical examination
① Dark brown fragments of the palisade layer of the testa composed of small polygonal cells with thick, lignified walls.

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# Cinnamon Bark

- Botanical origin:
  Drid bark of Cinnamomum Zeylanicum
- family: Lauraceae.
- Active Constituents:
  ① Cinnamon oil (Volatile oil) Cinnamic aldehyde 60-70% & Eugenol.
  ② Tannins. + tea
- Uses:
  ① Carminative. ② Falavor ③ Antiseptic ④ Anti-diarrhea.
- Microscopical examination:
  ① The abundant fibers, which occur singly; they are thick-walled and lignified

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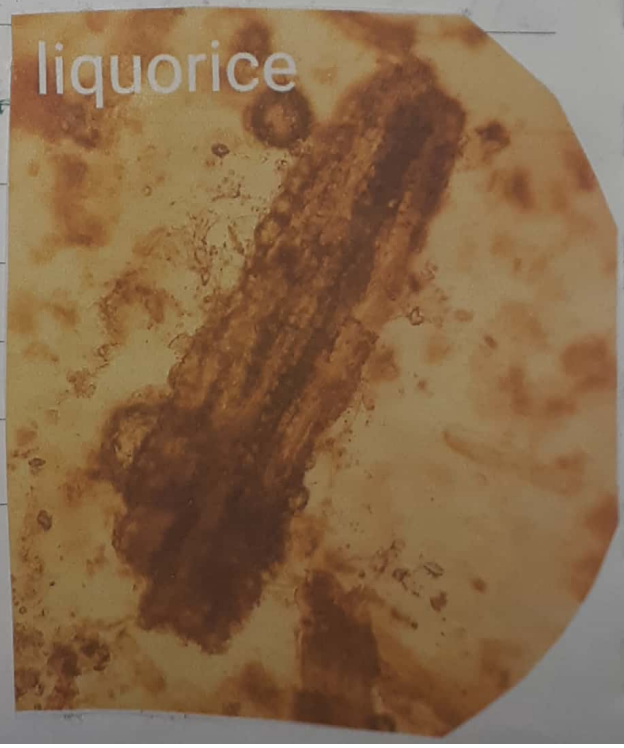
# Liquorice (sweet roots)

- Botanical origin:
  Dried root of Glycyrrhiza glabra.
- family:
  leguminosae.
- active constituents:
  ① Glycoside-saponin group: Glycyrrhizin 50 time sweeter than sucrose.
  ② Flavonoids - Liquiritin & Isoliquiritin.
- Uses:
  ① Expectorant ② Antihistaminic ③ Demulcent ④ flavoring agent for Aloe, Quinine, Chocolates.
- Microscopical examination:
  - the cell forming the crystal sheath surrounding the fibers.

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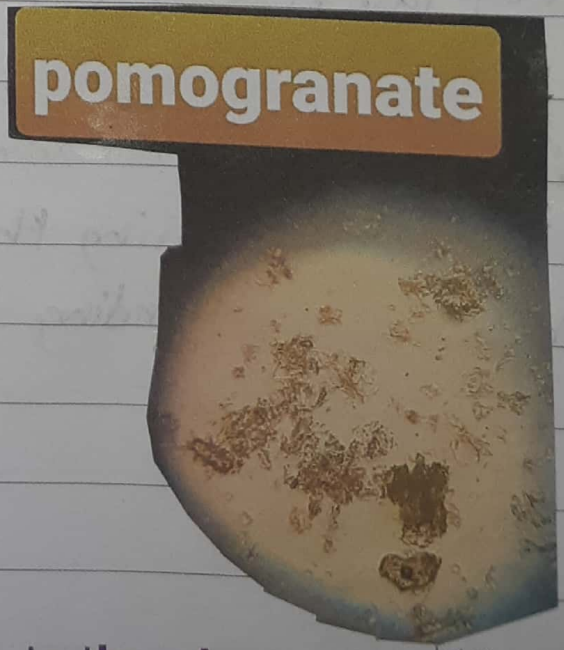
# Pomegranate root bark

- Botanical origin:
  - dried root bark of Punica granatum.
- Family
  - fagaceae
- Active Constituents:
  1. Vitamin C, vitamin B5 → Alkaloid, Pelletrien
  2. Tannins such as ellagitannins and flavonoids.

- Uses:
  1. Cancer Prevention 2. Cardiovascular diseases.
  3. Diarrhea 4. Parasites (الديدان الشريطية) 5. Diabetes
- Microscopical examination:
  - Those which are more numerous are Compound of lignified cell.

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# Ginger rhizome

- Botanical :-
  Dried rhizomes of Zingiber officinalis
- family :-
  Zingiberaceae .
- Chemical constituents :-
  ① Volatile oil 3% (Zingiberene, Zingiberol, Zingiberenol, Zingerone)
  ② Starch 50% ③ Protein

- Uses:
  ① Carminative ② Condiment ③ flavoring agent.

- Microscopical examination:
  ① The Parenchymatous cells showing wrintled walls.
  ② The fibers occure in groups found associated with the vessels .

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# Arabic gum:

- Botanical origin:
- Is the dried gummy exudation from the stem and the branches of acacia Senegal or Acacia seyal.
- family:
  leguminosae.
- Chemical Constituents:
  Arabic gum is a complex mixture of glycoproteins and polysaccharides.
- Uses:
  ① Suspending agent ② Viscosity increasing agent
- Chemical test:
  Gum powder + $I_2$ Solution
  → Yellowish brown Color.

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# olibanum

- Botanical origin:
  Is the oleogumresin obtained from
  Boswella Carterii.
- family:
  Burseraceae.
- chemical Constituents:
  Oil - terpenoids - Boswellic acid - Volatile oil.
- Uses:
  ① Anti-lipoid activity: Boswellic acid have been found to reduce serum Cholesterol and triglycerides.
  ② Anti inflammatory activity: due to Boswellic acid.
  ③ skin disease ④ Part of the process of mummification
- Chemical test:
  محذوف

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